

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001567**Date Inspected:** 04-Feb-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** OBG 5AE, OBG 3BW**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

OBG 5AE

Checked "mist" coat application of Interfine 979 coating was dry and hard to the touch and in conformance with ASTM D 1640 section 7 as mandated by the contract documents.

OBG 4CE & OBG 5EW

These 2 segments are located behind the paint shop and are in process of fabrication repairs. Also ZPMC is in process of pressure washing operations of a large quantity of splice plates and also performing grinding of the deficiencies as allocated by ZPMC QC personnel of the base metal prior to being transported into blast shop.

OBG 3BW

Exterior surfaces of Interzinc 22 were tested for adhesion with the following values recorded and verified by CT QA Lumley. 1) 9.80 MPa 2) 11.37 MPa 3) 11.46 MPa 4) 11.78 MPa 5) 11.32 MPa

6) 11.25 MPa 7) 10.70 MPa 8) 8.59 MPa 9) Invalid test glue failure. After the exterior surfaces were tested ABF QA then affixed 5 dollies on the interior surfaces coated with Interzinc 22 for further testing. These locations were selected by Caltrans QA Lumley and the areas selected were "suspect" areas which exhibited dry-spray when previously inspected and since repaired.

Summary of Conversations:

ABF QA Bill Oak advised ZPMC to paint the exposed base metal false work to prevent rust stain contamination on newly applied Interzinc 22 coated surfaces. Repair procedure for removal if rust stain is re-blasting to SP-10

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and re-application of specified coatings. ZPMC complied.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang. (858) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James
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Quality Assurance Inspector

Reviewed By:	Miller,Mark
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QA Reviewer
